

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/001313

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 C12P 41/00**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C12P, C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
KIPASS, Delphion, CA, Pubmed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4996158A (Junichi Oda et al.) 26 February 1991 see the whole documents,	1-3
A	US 5914263 A (Buizer et al.) 22 June 1999 see the whole documents,	1-3
A	US 5534436 A (Seufer-Wasserthal et al.) 9 July 1996 see the whole documents,	1-3

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents.
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

28 OCTOBER 2004 (28.10.2004)

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29 OCTOBER 2004 (29.10.2004)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/001313

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US4996158A	26.02.1991	JP01235599A2	20.09.1989
US5914263A	22.06.1999	TW0381120B RU2124506C1 PL0177831B1 EP0939135A1 JP06237790A2 DE69325698T2	01.02.2000 10.01.1999 31.01.2000 01.09.1999 30.08.1994 27.01.2000
US5534436A	09.07.1996	AT401385B AT67294A CA2145230A1 EP0675205A1 JP8038194A US5534436A	26.08.1996 15.01.1996 01.10.1995 04.10.1995 13.02.1996 09.07.1996